Bruhat Bengaluru
Mahanagara Palike

BRUHAT BENGALURU MAHANAGARA PALIKE YELAHANKA ZONE, BANGALORE

MODIFIED ESTIMATE

NAME OF WORK:PACKAGE NO.03(Package consists of 21 works)

JOB CODE : 008-18-000049,008-18-000050,008-18-000051, 008-18-000052,008-18-000053,008-18-000054, 008-18-000055,008-18-000056,008-18-000057, 008-18-000058,008-18-000059,009-18-000037, 009-18-000038,009-18-000039,009-18-000040, 009-18-000041,009-18-000042,009-18-000043, 009-18-000044,009-18-000045,009-18-000046,

DIVISON	: Byatarayanapura Division
SUB DIVISION	: Kodigehalli sub division
CONTRACTORS NAME	: CGC Infra Projects Pvt Ltd.
ESTIMATE COST	: 1090.00 Lakhs
MODIFIED ESTIMATE COST	: Rs. 10,42,94,737.80 /-
APPROVED TENDER PRICE	: Rs. 10,42,97,394.29 /-

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MODIFIED ESTIMATE

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PACKAGE-3

NAME OF WORK:-Package No.03(Package consists of 21 works)

Modified Schedule -B

Item No.	QUANTITY	Description of Item	Unit	As Per Approved Rates CGC INFRA PROJECTS PVT LTD	
				In Figures	In Words
1	6493.58	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, Roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.and as per the directions of the Engineer-in-charge of the work .	Cum	178.07	Rupees One Hundred Seventy Eight and Seven Paise Only
3	1729.33	Removing B.S.slab of Drain and stacking.and as per the directions of the Engineer-in-charge of the work .	Sqm	70.32	Rupees Seventy and Thirty Two Paise Only
4	7183.17	Removing and refixing stone slabs of drains and pointing in CM (1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm	86.20	Rupees Eighty Six and Twenty Paise Only
5		Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. 7.5cms thick and as per the directions of the Engineer-in-charge of the work .			
	1693.13	Upto 125%	Sqm	712.28	Rupees Seven Hundred Twelve and Twenty Eight Paise Only
6	1774.33	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. 10cms thick and as per the directions of the Engineer-in-charge of the work .	Sqm	883.54	Rupees Eight Hundred Eighty Three and Fifty Four Paise Only
7		Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .			
	9966.47	Upto 125%	Cum	93.00	Rupees Ninety Three Only
8		Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. and as per the directions of the Engineer-in-charge of the work .			
	2060.53	Upto 125%	Cum	52.17	Rupees Fifty Two and Seventeen Paise Only
	971.04	Above 125%	Cum	52.17	Rupees Fifty Two and Seventeen Paise Only

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9		Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.and as per the directions of the Engineer-in-charge of the work .			
	19372.14	Upto 125%	Cum	124.12	Rupees One Hundred Twenty Four and Twelve Paise Only
10		KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No.147, I.No.19.60 of PW,P&IWTD S.R 2016-17)			
	750.75	Upto 125%	Cum	342.53	Rupees Three Hundred Forty Two and Fifty Three Paise Only
	1526.90	Above 125%	Cum	342.53	Rupees Three Hundred Forty Two and Fifty Three Paise Only
11		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications.and as per the directions of the Engineer-in-charge of the work .			
	2252.94	Upto 125%	Cum	1891.85	Rupees One Thousand Eight Hundred Ninety One and Eighty Five Paise Only
	3520.49	Above 125%	Cum	1891.85	Rupees One Thousand Eight Hundred Ninety One and Eighty Four Paise Only
12		KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.147, I.No.19.56 of PW,P&IWTD S.R 2016-17)			
	8294.88	Upto 125%	Sqm	32.89	Rupees Thirty Two and Eighty Nine Paise Only
	155.00	Above ~~125%~~	Sqm	32.89	Rupees Thirty Two and Eighty Nine Paise Only

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13		Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.and as per the directions of the Engineer-in-charge of the work .			
	6515.30	Upto 125%	Sqm	14.74	Rupees Fourteen and Seventy Four Paise Only
	9668.20	Above 125%	Sqm	14.74	Rupees Fourteen and Seventy Four Paise Only
14		Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. and as per the directions of the Engineer-in-charge of the work .			
	13909.68	Upto 125%	Sqm	29.49	Rupees Twenty Nine and Forty Nine Paise Only
	10795.88	Above 125%	Sqm	29.49	Rupees Twenty Nine and Forty Nine Paise Only
15		Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. and as per the directions of the Engineer-in-charge of the work .			
	342.05	Upto 125%	Cum	6131.49	Rupees Six Thousand One Hundred Thirty One and Forty Nine Paise Only
	479.87	Above 125%	Cum	6131.49	Rupees Six Thousand One Hundred Thirty One and Forty Eight Paise Only
16		KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6 in PW,P&IWTD S.R 2016-17)			

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	263.47	Upto 125%	Cum	7618.42	Rupees Seven Thousand Six Hundred Eighteen and Forty Two Paise Only
	93.11	Above 125%	Cum	7618.42	Rupees Seven Thousand Six Hundred Eighteen and Forty Two Paise Only
17	85574.84	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm	3.40	Rupees Three and Forty Paise Only
18	93484.60	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm	13.61	Rupees Thirteen and Sixty One Paise Only
19	3938.28	Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth	Cum	8686.84	Rupees Eight Thousand Six Hundred Eighty Six and Eighty Four Paise Only
20	3461.99	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm	580.71	Rupees Five Hundred Eighty and Seventy One Paise Only
21	257.42	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	885.81	Rupees Eight Hundred Eighty Five and Eighty One Paise Only
22	257.42	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	4265.73	Rupees Four Thousand Two Hundred Sixty Five and Seventy Three Paise Only

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23	823.99	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete and as per the directions of the Engineer-in-charge of the work .	Cum	6653.22	Rupees Six Thousand Six Hundred Fifty Three and Twenty Two Paise Only
25	88.00	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency>130lm/w at 1W & FixtureEfficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 .	No	20030.40	Rupees Twenty Thousand Thirty and Forty Paise Only
26	135.00	Supplying and Fixing of..... mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe (Pg No. 108, Item No. 17.12)	No	955.51	Rupees Nine Hundred Fifty Five and Fifty One Paise Only
27	440.00	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded Aluminium unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm. (Pg No. 12, Item No. 2.12.1)	No	8.03	Rupees Eight and Three Paise Only
28	150.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of ROUP-A.3.5 core 25sqmm (Pg No. 5, Item No. 7.4.5)	Rmt	177.19	Rupees One Hundred Seventy Seven and Nineteen Paise Only
29	150.00	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.25 sqmm to 75 sqmm (Pg No. 61, Item No. 7.8.7)	Rmt	37.24	Rupees Thirty Seven and Twenty Four Paise Only

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30	55.00	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes25 sqmm Long Barrel (Pg No. 64, Item No. 7.21.7)	No	22.03	Rupees Twenty Two and Three Paise Only
31	472.83	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	549.11	Rupees Five Hundred Forty Nine and Eleven Paise Only
32	1059.80	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	5723.17	Rupees Five Thousand Seven Hundred Twenty Three and Seventeen Paise Only
33	935.42	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design and as per the directions of the Engineer-in-charge of the work .	Cum	11804.75	Rupees Eleven Thousand Eight Hundred Four and Seventy Five Paise Only
34	56.05	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Tonne	68740.46	Rupees Sixty Eight Thousand Seven Hundred Forty and Forty Six Paise Only
35	4955.99	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc. and as per the directions of the Engineer-in-charge of the work .	Sqm	102.08	Rupees One Hundred Two and Eight Paise Only
36	223.64	Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Cum	4748.90	Rupees Four Thousand Seven Hundred Forty Eight and Ninety Paise Only
37	67.14	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	5676.67	Rupees Five Thousand Six Hundred Seventy Six and Sixty Seven Paise Only
38	627.57	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm	110.02	Rupees One Hundred Ten and Two Paise Only
39	62.12	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	6171.18	Rupees Six Thousand One Hundred Seventy One and Eighteen Paise Only

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41	1998.00	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete. and as per the directions of the Engineer-in-charge of the work .	No	355.00	Rupees Three Hundred Fifty Five Only
42	120.23	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)	Sqm	68.05	Rupees Sixty Eight and Five Paise Only
43	305.00	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	Rmt	928.91	Rupees Nine Hundred Twenty Eight and Ninety One Paise Only
44	592.50	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint	Sqm	747.44	Rupees Seven Hundred Forty Seven and Forty Four Paise Only
45	553.80	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.	Rmt	367.48	Rupees Three Hundred Sixty Seven and Forty Eight Paise Only
47	623.25	Removing and resetting of footpath slab and as per the directions of the Engineer-in-charge of the work .	Sqm	141.78	Rupees One Hundred Forty One
48	26.14	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	401.67	Rupees Four Hundred One and Sixty Seven Paise Only
49	40.97	Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum	2979.54	Rupees Two Thousand Nine Hundred Seventy Nine and Fifty Four Paise Only
52		KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Materiall(P.No.155, I.No.20.4.2 of PW,P&IWTD S.R 2016-17)			

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	317.63	Upto 125%	Cum	1781.83	Rupees One Thousand Seven Hundred Eighty One and Eighty Three Paise Only
	912.39	Above 125%	Cum	1781.83	Rupees One Thousand Seven Hundred Eighty One and Eighty Three Paise Only
E1	48.12	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	5418.00	Rupees Five Thousand Four Hundred Eighteen Only
E2	354.15	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	2337.00	Rupees Two Thousand Three Hundred Thirty Seven Only
E3	18.38	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. (P. No. 45 / I. No. 7.37 of CSR 2018-19)	Sqm	3416.21	Rupees Three Thousand Four Hundred Sixteen and Twenty One Paise Only
E4	36.75	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Page No. 123 Item No. 15.74 of SR 2018-19).	Sqm	107.75	Rupees One Hundred Seven and Seventy Four Paise Only
E5	188.80	KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)	Nos	382.23	Rupees Three Hundred Eighty Two and Twenty Two Paise Only

For INFRA PROJECTS

Executive Engineer

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